



PROJECT ENGINEERING PACKAGE

**REFURBISH MOBILE SHOWER TRAILER Q37 AND Q38 BLDG,
AT
CENTRAL SERVICE AREA (CSA) STAGING AREA,
INDEPENDENCE, MO**

DATE
06/14/2012

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1. GENERAL

1.1 Purpose

The purpose of this document is to provide a detailed Statement of Work (SOW) to refurbish the Q37 and Q38 (Shower Trailers). This document will be used by the FAA Logistics Center (AML) for the bidding and procurement process for this project for completion of work no later than 60 days after notice to proceed.

1.2 Introduction

The Q37 BLDG and Q38 BLDG were built in 1994. The Shower Trailers require a complete refurbishment per the SOW. The dimensions are: 26' 2" X 8' X 10' 6" (with trailer tongue and bumper: 31' 5" X 8' X 10' 6"). Trailer GW = 10,000 pounds; TW = 15,000 pounds.

Q37 BLDG and Q38 BLDG are currently located in FAA staging. A mandatory pre-proposal conference and site visit will be held at the staging area located at 210 South Geospace Drive, Independence, MO 64056.

1.3 Project Scope

The scope of this project is limited to details which describe the exterior and interior refurbishment of the Q37 and Q38 BLDG. See the statement of work in section 4.1 for requirements.

1.4 Target Audience

The target audiences for this document are the companies bidding on this project, the Contracting Officers Representative (COR), and system engineers of the FAA.

1.5 Definition, Acronyms, and Abbreviations

AF -Air Facilities
AT -Air Traffic
ATCT -Airport Traffic Control Tower
CAI -Contractor Acceptance Inspection
CO-Contract Officer
COR -Contracting Officer's Representative
EOSH -Environmental Occupational Safety and Health
HAZMAT -Hazardous Materials
JAI -Joint Acceptance Inspection
MATCT -Mobile Airport Traffic Control Tower
NTP – Notice to proceed
SOW -Statement of Work
TRDR -Technical Reference Data Record

1.6 References

The contractor shall comply with the following references. These documents can be found online at: http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9804 or <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=29:5.1.1.1.8&idno=29>

1. FAA Order 1050.20A, "Airway Facilities Asbestos Control Program", October 2008.
2. FAA Order 3900.19B, "FAA Occupational Safety and Health Program", April 1999.
3. FAA-C-1217F, "Electrical Work, Interior", February 1996.
4. FAA -STD-O 19E, "Lightning and Surge Protection, Grounding, Bonding and Shielding Requirements for Facilities and Electronic Equipment", December 2005 .
5. OSHA 29 CFR 1910.147, "Occupational Safety and Health Standards", August 1998. -

2. PROJECT COORDINATION

2.1 Points of Contact

REGIONAL

Moni Jacob	Contracting Officer Representative (COR)
Howard Manning	Operations Support Manager

LOCAL

Lori VanderLeest	Staging Area Manager
Connie Beeman	Infrastructure Group Manager
Carl Piccolo	Operations Engineering Group Manager

2.2 Facility Location:

FAA Staging Area
210 S. Geospace Drive
Independence, MO 64056

2.3 Work Schedule/Period of Performance

TASK/ACTIVITY:	START
Preconstruction Meeting	15 Days after award
Plant Construction & Installation	53 Days after NTP
Contractor Acceptance Inspection	7 Days after plant construction & installation

2.4 Training / Certification

If applicable, the contractor will provide training on any new equipment installed (e.g., self-leveling motors). Training can begin after installation and site-acceptance.

2.5 System Acceptance and Commissioning

JAI will be performed by the COR after installation & contractor acceptance have been completed at the FAA Staging Area.

2.6 Roles and Responsibilities

The installation effort will be the cooperative effort from AJW-C24B, and the FAA staging area.

Organization	Responsibility
FAA Staging Area (AJW-C14B)	Ensure Q37 & Q38 is available for transport for refurbishment Assist with CAI and JAI
AJW-C24B	Provide a COR for the project Complete CAI / JAI

3. HAZMAT/EOSH IMPACTS

- Hazardous Energy - As required by OSHA (29 CFR 1910.147 [7] and 1960) and FAA Order 3900.19B [4], all hazardous energy sources shall be locked out and tagged prior to working on the power source. Refer to the ANI Standard Operating Procedure (SOP) *Hazardous Energy* for work requirements. All new energy sources installed shall be clearly marked on all power panels and circuits. The new circuits shall clearly be identified on the power panel.
- General - Material Safety Data Sheets (MSDS) for hazardous materials already present in the workplace shall be provided by the District Office. Contractors shall identify and provide MSDS for all hazardous materials brought into the work area by themselves or their sub-contractors. Refer to any of the EOSH Environment Engineers contacts above if any environmental, health or safety issues arise.

4. INSTALLATION ACTIVITIES

4.1 Specific Tasks

The work is broken into interior and exterior activities. Any item replaced must be as good as or better than the original. Functionality must remain the same.

Exterior Requirements:

1. Remove the existing roof materials and replace with like roof materials.
2. Power wash, prime and paint (2 tone, same as original) entire exterior as agreed during site visit with COR. Take extra care to ensure the trailer undercarriage is also painted. Use weather resistant all-weather paint matching the original.
3. Replace all galvanized bolts with stainless steel bolts (approximately 1000 bolts).
4. Remove both old fold up stairs and install new fold up stairs (same composition and specification). Provide the details for approval to the COR.
5. Replace HVAC system with equivalent to or better than the one currently installed, (minimum 5,000 BTU) such as the Coleman-Mach Polar Cub.
6. Sand blast and repair/re-finish rear bumper with epoxy in black finish (non-skid).
7. Replace all shocks, braking system, and inspect the under-carriage, provide under-carriage report including pictures and any proposed repairs to the COR and CO for consideration.
8. Any issues found during refurbishment should be brought to the attention of the COR

Interior Requirements:

1. Install new Electrical Power Panel. Panel should be Square-D bolt on breaker panel or equivalent.
2. Replace existing circuits for washer and dryer.
3. Install new shower doors with off-the-shelf tempered glass shower doors, field measurements will be required.
4. Install new seats and tables equivalent with original as shown during site visit forum.
5. Install new piping for water, equivalent with original materials as shown during site visit forum.
6. Install new water tanks, maximize the size of the tanks to the mobile unit, check on sizing during site visit. One for gray water containment and one for fresh water containment. Coordinate with the COR on sizing of tanks
7. Miscellaneous plumbing, field determination after detailed inspection, during site visit.
8. Install in line off the shelf water filters prior to the water heater.
9. Replace the existing water heater with a 50 gallons capacity and fast recovery.
10. Install low flow (RV style) or normal flow showerheads.
11. Install a pumping system to supply flow of water for three showerheads.
12. Deliver the refurbished Q37 & Q38 to facility location specified in section 2.2
13. CAI/JAI will be completed by COR and all punch list items will be corrected by contractor.

4.2 Site Preparation

Personnel from the FAA staging area will transport the Q37 and Q38 BLDG to the staging area located at Independence, MO. All refurbishment work shall be done at the contractor's facility. When the project is complete, contractor will return Q37 and Q38 back to the staging area. The COR will be provided by the Operations Support to provide oversight for this project. Ensure the appropriate insurance and security is maintained.

4.3 Equipment Installation

No new electronics equipment is to be installed.

5. PERFORMANCE VERIFICATION

Provide all manufacturer's warranty and handbooks for all equipment installed.

6. CONTRACTOR ACCEPTANCE INSPECTION/JOINT ACCEPTANCE INSPECTION

Contractor shall coordinate with the CO and Central Service Area Operations Engineering AJW -C24B personnel for inspection and acceptance.

7. TEST EQUIPMENT / SPECIAL TOOLS

No special test equipment or tools are expected to be required for this project.

8. PROJECT DISCREPANCIES

The contractor shall notify the Contracting Officer and the Contracting Officer Representative (COR) of any project problems or discrepancies.

9. DRAWINGS AND DOCUMENTATION

There are no FAA drawings provided for this project. The contractor shall provide an electronic "CAD" copy and two hardcopy sets (11"X17") of any drawing and/or sketches for "as-built" installed items for both the Q37 and Q38. One set will be left in the Q37 and Q38 BLDGs respectively. Additionally, a set of the drawings for both the Q37 and Q38 BLDGs shall be sent to:

Operations Engineering
AJW-C24
2601 Meacham Blvd AJW -C24
Fort Worth, TX 76137